

This reprint includes  
changes from Change 1.

DIAR 55-2  
AR 381-8  
OPNAVINST 3880.3A  
AFR 200-8

DEFENSE INTELLIGENCE  
AGENCY REGULATION  
No. 55-2  
ARMY REGULATION  
No. 381-S  
OPNAV INSTRUCTION  
No. 3880.3A  
AIR FORCE REGULATION  
No. 200-8

DEFENSE INTELLIGENCE AGENCY AND  
DEPARTMENTS OF THE ARMY, THE NAVY  
AND THE AIR FORCE  
WASHINGTON, D.C., 12 October 1971

INTELLIGENCE

DATA RECORDED ON RECONNAISSANCE/MAPPING IMAGERY

1. **Purpose.** To establish the Department of Defense (DoD) formats for data recorded on sensor imagery during aerial reconnaissance and mapping missions. This regulation is issued to standardize inflight data recording to provide the efficient interchanges of reconnaissance and mapping records between the Military Services.

2. **Supersession.** This regulation supersedes DIAR 55-2, Army Regulation No. 381-S, OPNAV Instruction No. 3880.3, and Air Force Regulation No. 95-9, 19 August 1965. Revision has been so extensive that asterisks to indicate changes have been omitted.

3. **References.**

a. Secretary of Defense Memorandum, "Standardized Reconnaissance Data Marking and Material Handling Systems (U)," CONFIDENTIAL, 26 March 1963.

b. DoD Directive 5105.21, "Defense Intelligence Agency," 1 August 1961, as amended.

c. Military Standard 782C, "Reconnaissance/Mapping Data Marking," 1 July 1969.

4. **Scope.** This regulation applies to any element of the DoD operating airborne reconnaissance or mapping systems which include the capability to apply binary coded data to the photographic film or sensor record. Other Government agencies and private aerial survey organizations are encouraged to use the data and data formats, when practical in the interest of standardization.

5. **Description.**

a. Reference 3.a established the Mil Std 78 Code Matrix Block (CMB) as the data marking system for recording data from aerial reconnaissance or mapping missions. However, other data recording systems may emerge for advanced aerial reconnaissance or mapping systems. The data requirements set forth in this regulation will apply to all DoD systems incorporating inflight data recording on photographic film or sensor record.

b. The CMB is a pattern of dots recorded on film simultaneously with sensor operations. The CMB provides digital information pertaining to the location and orientation of the sensor and/or the vehicle which exposed the imagery, the sensing group and the time of the exposure. Technical specifications for the recorded CMB are set forth in reference 3.c.

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**6. General.**

a. The airborne data annotation system can, within the limitations of the 96 dot CMB structure, display selected data in human readable alpha numerics on alternate frames of aerial photography or sensor record to accommodate specific command requirements. This regulation does not preclude the alpha numeric display provided the digital display specified in this regulation appears on the other alternate frames.

b. Specific contents of the CMB record for reconnaissance imagery are shown in enclosures 1 and 2. Enclosures 3 and 4 show the specific contents of the CMB record on mapping photography. Enclosure 5 sets forth the data matrix coding and the conversion of the 16 numeric combinations provided by the excess 3 Binary Coded Decimal (BCD-3) recording system.

c. Enclosure 6 is a listing of assigned Sensor Identification Codes to be used in Positions 10, 11 and 12, Column Z of the CMB. Enclosure 7 is a listing of Mode Designators to be used in Position 2, Column X and Position 8, Column Z, as indicated.

d. DoD elements operating aerial reconnaissance and mapping systems with inflight data recording devices will assure that all aircraft systems inputting and recording annotations are properly oriented, maintained and verified to provide accurate data for the CMB record. In addition, these DoD elements will assure strict compliance with technical orders pertaining to the processing of reconnaissance and mapping film to ensure the readability of the CMB.

e. Requirements for specific codes to identify additional sensors or to assign designators for additional modes will be forwarded to DIA for validation and publication. Requests for Sensor Identification Codes and Mode Designators will include the information indicated in the column headings of Enclosures 6 and 7.

**7. Office of Primary Interest.** The Defense Intelligence Agency (RPP) is charged with the responsibility of coordination and maintenance of this regulation.

**8. Effective Date.** This regulation is effective upon receipt. Updating of current inventory aerial reconnaissance and mapping systems to incorporate the Mil Std 782 data annotation shall be determined on a cost effectiveness basis by the Military Department concerned.

By Order of the Director of the Defense Intelligence Agency and the  
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*Army:*

Active Army, NG, and USAR. To be distributed in accordance with DA Form 12-9 requirements for Military Intelligence—A.

*Navy:*

<i>SNDL CODE</i>	<i>NAME</i>
21A	Fleet Command in Chief
22	Fleet Commanders
24A	Naval Air Force Commanders
26T	Fleet Combat Camera Group and Detachment
28A	Carrier Divisions
29H	Attach Air Craft Carrier (CVA) (CVAN)
31A	Amphibious Command Ships (LCC)
42A	Fleet Air Commands
42B	Fleet Air Wings
42I	Reconnaissance Attack Wing and Attack Squadrons (VAH) (RVAH)
42Y	Photographic Squadrons (VAP) (VFP)
42AA	Fleet Air Intelligence Support Center
42DD	Fleet Operational Intelligence Training Center
46Z	Composite Reconnaissance Squadrons (VMCJ)
A3	Chief of Naval Operations
A4A	Chief of Naval Material (CNM)
A6	Headquarters Marine Corps
E3	Research Office ONR
FA2	Fleet Intelligence Center, Atlantic (FICLANT)
FB1	Fleet Intelligence Center, Pacific (FICPAC)
FB2	Fleet Intelligence Center Pacific Facility (FICPACFAC)
FC2	Fleet Intelligence Center Europe (FICEUR)
FKA6A1	Air Development Center (NAVAIRDEVCEN)
FKR6A	Naval Photographic Center (NPC)
FS1	Intelligence Command Headquarters (NAVINTCOM)
FS3	Reconnaissance and Technical Support Center (NRTSC)
V12	Marine Corps Development and Education Command CG MCDEC
	Stocked: Supply & Fiscal Dept. (Code 514.32), U.S. Naval Station Washington, D.C. 20390 (100 cys.)

*Air Force: S*

CODE MATRIX BLOCK CONTENTS

RECONNAISSANCE

(A) COLUMN X (B)

D	7 Digits	D	+	6 Digits	D	+	7 Digits	D	5 Digits	D	(1)	D	IB
I	Time GMT	I	S	Latitude	I	S	Longitude	I	Radar	I	B/N	I	MSB
V		V	S		V	S		V	Altitude	V	M	V	BIT
I	(Tenths of seconds)@	I	I	(Tenths of minutes)@	I	I	(Tenths of minutes)@	I	(Tens of feet)@	I	O	I	BIT
D		D	G		D	G		D		D	D	D	LSB
E		E	N		E	N		E		E	E	E	OCPB
R		R			R			R		R		R	

COLUMN Y

D	5 Digits	D	4 Digits	D	4 Digits	D	4 Digits	D	4 Digits	D	4 Digits	D	
I	Barometric	I	Heading	I	+	I	+	I	+	I	ELRAC #	I	
V	Altitude	V		V	S	V	S	V	S	V	(Location	V	
I		I		I	I	I	I	I	I	I	Frequency	I	
D	(Hundreds of feet)@	D	(Tenths of degrees)@	D	G	D	G	D	G	D	& Pulse Width)	D	
E		E		E	N	E	N	E	N	E		E	
R		R		R		R		R		R		R	

COLUMN Z

D	6 Digits	D	6 Digits	D	4 Digits	D	3 Digits	D	(1)	D	5 Digits	D	
I	Date	I	Detachment and Squadron &	I	Sortie	I	Sensor Ident.	I	*	I	ELRAC #	I	
V		V		V		V		V		V	(Location,	V	
I		I		I		I		I		I	Frequency,	I	
D	(2) (2) (2)	D	(2) (4)	D		D		D		D	& Pulse Width)	D	
E	Day Mon Year	E	Det. Sqd.	E		E		E		E		E	
R		R		R		R		R		R		R	

(C) LEGEND: OCPB - Odd Character Parity Bit  
IB - Index Bit  
LSD - Least Significant Digit  
MSC - Most Significant Digit  
DIVIDER - Excess 3 Code w/OCPB & IB as (111111)

(D) LSB - Least Significant Bit  
MSB - Most Significant Bit  
SPACE - Excess 3 Code w/OCPB & IB as (100001)  
\* SLR Mode Range Delay or IR Filter  
# ELRAC data requirement in columns Y2 thru Y5 and Z2 thru Z6 is optional.  
& Positions Z-21 thru Z-24 will be used by Army Aviation Units

Note: The orientation of the Code Matrix Block above will appear as indicated when the negative is viewed with the emulsion down and the CMB is in the upper right hand corner. This will not be true when the photograph is a prism image, mirror image, or a combination of prism and mirrors and the number of mirrors or prism plus mirrors is an odd number.

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## CODE MATRIX BLOCK CONTENTS

### RECONNAISSANCE

#### Data Description By Row of Each Column

<i>Column X</i>	<i>Column Y</i>	<i>Column Z</i>
1. Divider	1. Divider	1. Divider
2. B/N Mode (Nor. or Stby)	<i>ELRAC</i>	<i>ELRAC</i>
3. Divider	2. Emitter A location	2. Emitter B freq.
<i>Radar Altitude (Feet)</i>	3. Emitter A frequency	3. Emitter B pulse width
4. Tens of thousands	4. Emitter A pulse width	4. Emitter C location
5. Thousands	5. Emitter B location	5. Emitter C frequency
6. Hundreds	6. Divider	6. Emitter C pulse width
7. Tens	<i>Pitch (Degrees)</i>	7. Divider
8. Units	7. Tens	8. SLR Mode Range delay or
9. Divider	8. Units	9. Divider IR Filter
<i>Longitude</i>	9. Tenths	<i>Sensor Identification</i>
10. Hundreds of degrees	10. Sign, + or -	10. Hundreds
11. Tens of degrees	11. Divider	11. Tens
12. Unit degrees	<i>Roll (Degrees)</i>	12. Units
13. Tens of minutes	12. Tens	13. Divider
14. Unit minutes	13. Units	<i>Sortie or Project No.</i>
15. Tenths of minutes	14. Tenths	14. Thousands
16. Sign, + or -	15. Sign, + or -	15. Hundreds
17. Divider	16. Divider	16. Tens
<i>Latitude</i>	<i>Drift (Yaw) (Degrees)</i>	17. Units
18. Tens of degrees	17. Tens	18. Divider
19. Unit degrees	18. Units	<i>Taking Unit</i>
20. Tens of minutes	19. Tenths	19. Thousands (Squad.)
21. Unit minutes	20. Sign, + or -	20. Hundreds (Squad.)
22. Tenths of minutes	21. Divider	21. Tens (Squad.)
23. Sign, + or -	<i>Heading (Degrees)</i>	22. Units (Squad.)
24. Divider	22. Hundreds	23. Tens (Detach.)
<i>Time-GMT</i>	23. Tens	24. Units (Detach.)
25. Tens of hours	24. Units	25. Divider
26. Unit hours	25. Tenths	<i>Date</i>
27. Tens of minutes	26. Divider	26. Tens of years
28. Unit minutes	<i>Barometric Altitude (Feet)</i>	27. Units year
29. Tens of seconds	27. Tens of thousands	28. Tens of month
30. Unit seconds	28. Thousands	29. Units month
31. Tenths of seconds	29. Hundreds	30. Tens of day
32. Divider	30. Tens	31. Units day
	31. Units	32. Divider
	32. Divider	

ENCLOSURE 2

CODE MATRIX BLOCK CONTENTS

MAPPING

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(A) COLUMN X (B)

D	7 Digits	D	6 Digits	D	7 Digits	D	5 Digits	D	N	D	IB
I	Time GMT	I	Latitude	I	Longitude	I	Radar	I	A	I	MSB
V		V		V		V	Altitude	V	V	V	BIT
I	(Tenths of seconds)@	I	(Tenths of minutes)@	I	(Tenths of minutes)@	I	(Tens of feet)@	I	I	I	BIT
D		D		D		D		D	M	D	LSB
E		E		E		E		E	O	E	OCPB
R		R		R		R		R	D	R	
									E		

COLUMN Y

D	5 Digits	D	4 Digits	D	4 Digits	D	4 Digits	D	4 Digits	D	4 Digits	D
I	Barometric	I	Heading	I	Drift	I	Roll	I	Pitch	I	Prime &	I
V	Altitude	V	(Tenths of degrees)@	V	(Tenths of degrees)@	V	(Tenths of degrees)@	V	(Tenths of degrees)@	V	Alternate	V
I	(Hundreds of feet)@	I		I		I		I		I	Camera	I
D		D		D		D		D		D	Film	D
E		E		E		E		E		E	Identifi-	E
R		R		R		R		R		R	cation	R

COLUMN 2

D	6 Digits	D	6 Digits	D	4 Digits	D	3 Digits	D	(1)	D	5 Digits	D
I	Date	I	Detachment and Squadron	I	Sortie or Project Number	I	Sensor Ident.	I	MODEL NO	I	Camera Azimuth	I
V		V		V		V		V		V		V
I		I		I		I		I		I		I
D	(2) (2) (2)	D	(2) (4)	D		D		D		D		D
E	Day Mon. Year	E	Det. Sqd.	E		E		E		E		E
R		R		R		R		R		R		R

LEGEND: OCPB - Odd Character Parity Bit  
IB - Index Bit  
LSB - Least Significant Bit  
MSB - Most Significant Bit  
SPACE - Excess 3 Code w/OCPB & IB as (100001)  
DIVIDER-Excess 3 Code w/OCPB & IB as (111111)  
@ Practical degree of accuracy.

Note: The orientation of the Code Matrix Block above will appear as indicated when the negative is viewed with the emulsion down and the CMU is in the upper right hand corner. This will not be true when the photograph is a prism image, mirror image, or a combination of prism and mirrors and the number of mirrors or prism plus mirrors is an odd number.

(C) (NEGATIVE)

ENCLOSURE 3

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## CODE MATRIX BLOCK CONTENTS

### MAPPING

Data Description By Row of Each Column

Column X	Column Y	Column Z
1. Divider	1. Divider	1. Divider
2. Minus sign (Map. format)	<i>Film Identification</i>	<i>Camera Azimuth</i>
3. Divider	2. Tens (Prime Camera)	2. Hundreds of degrees
<i>Radar Altitude (Feet)</i>	3. Units " "	3. Tens of degrees
4. Tens of thousands	4. Tens (Alternate Camera)	4. Unit degrees
5. Thousands	5. Units " "	5. Tens of minutes
6. Hundreds	6. Divider	6. Unit minutes
7. Tens	<i>Pitch (Degrees)</i>	7. Divider
8. Units	7. Tens	8. Mode (Mount)
9. Divider	8. Units	9. Divider
<i>Longitude</i>	9. Tenths	<i>Sensor Identification</i>
10. Hundreds of degrees	10. Sign, + or -	10. Hundreds
11. Tens of degrees	11. Divider	11. Tens
12. Unit degrees	<i>Roll (Degrees)</i>	12. Units
13. Tens of minutes	12. Tens	13. Divider
14. Unit minutes	13. Units	<i>Sortie or Project No.</i>
15. Tenths of minutes	14. Tenths	14. Thousands
16. Sign, + or -	15. Sign, + or -	15. Hundreds
17. Divider	16. Divider	16. Tens
<i>Latitude</i>	<i>Drift (Yaw) (Degrees)</i>	17. Units
18. Tens of degrees	17. Tens	18. Divider
19. Unit degrees	18. Units	<i>Taking Unit</i>
20. Tens of minutes	19. Tenths	19. Thousands (Squad)
21. Unit minutes	20. Sign, + or -	20. Hundreds (Squad)
22. Tenths of minutes	21. Divider	21. Tens (Squad)
23. Sign, + or -	<i>Heading (Degrees)</i>	22. Units (Squad)
24. Divider	22. Hundreds	23. Tens (Detach)
<i>Time—GMT</i>	23. Tens	24. Units (Detach)
25. Tens of hours	24. Units	25. Divider
26. Unit hours	25. Tenths	<i>Date</i>
27. Tens of minutes	26. Divider	26. Tens of years
28. Unit minutes	<i>Barometric Altitude (Feet)</i>	27. Unit years
29. Tens of seconds	27. Tens of thousands	28. Tens of months
30. Unit seconds	28. Thousands	29. Unit months
31. Tenths of seconds	29. Hundreds	30. Tens of days
32. Divider	30. Tens	31. Unit days
	31. Units	32. Divider
	32. Divider	

ENCLOSURE 4



# DATA MATRIX CODING

The data matrix is coded in excess three binary coded decimal. This system uses decimal numbering but it is recorded in a coded binary form as listed below. It is read as a normal binary system, that is right to left, making a summation of the significant bits, then subtracting three to obtain the decimal values tabulated below:

<u>DECIMAL VALUE</u>	<u>INDEX BIT</u>	<u>D4 8*</u>	<u>D3 4*</u>	<u>D2 2*</u>	<u>D1 1*</u>	<u>PARITY BIT</u>	<u>NUMERIC VALUE OR MEANING</u>
-3	•					•	Not Used
-2	•				•		Minus Sign
-1	•			•			Error
0	•			•	•	•	Zero
1	•		•				One
2	•		•		•	•	Two
3	•		•	•		•	Three
4	•		•	•	•		Four
5	•	•					Five
6	•	•			•	•	Six
7	•	•		•		•	Seven
8	•	•		•	•		Eight
9	•	•	•			•	Nine
10	•	•	•		•		Plus Sign
11	•	•	•	•			Special
12	•	•	•	•	•	•	Divider

## NOTES:

1. The numerical figures by the asterisk (\*) indicates the binary value of the recorded bit in that column.
2. The index mark is always present.
3. The parity bit is present to cause the total count of dots across one column (six dot positions) to be an even number. This provides the "Parity check" to insure that the bit recording is correct.
4. The divider is used as a visual indicator to separate major groups of characters within the Code Matrix Block.
5. Significant bits progress from D4 (most significant) through D1 (least significant).
6. "Not Used" (decimal value-3) indicates that data is not available for recording.
7. "Error" (decimal Value-1) indicates the information generated for recording is outside the range of the particular sensing device in use.
8. "Special" (decimal value 11) indicates that the information normally presented in this location will be recorded by some other recording device.
9. A plus or minus code may occur in the code matrix block. This is an acceptable coded digit. The plus and minus convention is as follows:

Latitude: + North -South Longitude: +East -West  
Drift/Yaw: +A/C Nose Left of Ground Track; -A/C Nose Right of Ground Track  
Roll: +Right Wing Down; -Right Wing Up Pitch: +Nose Up; -Nose Down  
Minus (-) code in position X2 denotes Mapping Mode.

ENCLOSURE 5

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### SENSOR IDENTIFICATION CODES

<i>Nomenclature</i>	<i>Designation</i>	<i>Focal Length (Inches)</i>	<i>Mode</i>	<i>Depression Angle (Degrees)</i>	<i>Mount</i>	<i>Code</i>
Camera	KA-1	36	S. Vert (L)	77	Fixed	132
Camera	KA-1	36	S. Vert (R)	77	Fixed	133
Camera	KA-1	36	Vert		Fixed	134
Camera	KA-2	24	L.Obl.	8	Fixed	126
Camera	KA-2	24	L.Obl.	15	Fixed	127
Camera	KA-2	24	L.Obl.	25	Fixed	128
Camera	KA-2	24	R.Obl.	25	Fixed	129
Camera	KA-2	24	R.Obl.	15	Fixed	130
Camera	KA-2	24	R.Obl.	8	Fixed	131
Camera	KA-18A	3	V.Strip		Stab.	135
Camera	KA-18A	6	V.Strip		Stab.	136
Camera	KA-18A	6	V.Strip		Fixed	137
Camera	KA-50A	1.75	Vert.		Fixed	003
Camera	KA-50A	1.75	F.Vert.		Stab.	011
Camera	KA-50A	1.75	A.Vert.		Stab.	013
Camera	KA-50A	1.75	L.Obl.	52	Fixed	034
Camera	KA-50A	1.75	R.Obl.	52	Fixed	035
Camera	KA-50A	1.75	L.Obl.	5	Fixed	140
Camera	KA-50A	1.75	R.Obl.	5	Fixed	141
Camera	KA-50A(Special)	24	L.Obl.	20	Fixed	142
Camera	KA-50A(Special)	24	R.Obl.	20	Fixed	143
Camera	KA-50A(Special)	36	L.Obl.	20	Fixed	144
Camera	KA-50A(Special)	36	R.Obl.	20	Fixed	145
Camera	KA-51A(Special)	6 (F1.5)	F.Vert.		Fixed	146
Camera	KA-51A/B	6	F.Obl.	11.5	Fixed	002
Camera	KA-51A/B	6	L.Obl.	5	Fixed	005
Camera	KA-51A/B	6	R.Obl.	5	Fixed	008
Camera	KA-51A/B	6	L.Obl.	19.75	Fixed	007
Camera	KA-51A/B	6	R.Obl.	19.75	Fixed	009
Camera	KA-51A/B	6	F.Vert.		Stab.	010
Camera	KA-51A/B	6	A.Vert.		Stab.	012
Camera	KA-51A/B	6	F.Vert.(N)		Caged	014
Camera	KA-51A/B	6	A.Vert.(N)		Caged	015
Camera	KA-51A/B	6	Vert.(N)		Fixed	023
Camera	KA-51A/B	6	L.Obl.(N)	81	Fixed	028
Camera	KA-51A/B	6	R.Obl.(N)	81	Fixed	029
Camera	KA-51A/B	6	L.Obl.	52	Fixed	030
Camera	KA-51A/B	6	R.Obl.	52	Fixed	031
Camera	KA-51A/B	6	L.Obl.	37.5	Fixed	032
Camera	KA-51A/B	6	R.Obl.	37.5	Fixed	033
Camera	KA-51A/B	6	F.Obl.	16	Fixed	147
Camera	KA-51A/B	6	Vert.		Fixed	016
Camera	KA-53A	12	S. Vert. (L)	81	Fixed	017
Camera	KA-53A	12	S. Vert. (R)	81	Fixed	018
Camera	KA-53A	12	Vert		Fixed	019
Camera	KA-53A	12	L. Obl	19.75	Fixed	020
Camera	KA-53A	12	R. Obl.	19.75	Fixed	021
Camera	KA-53A	12	F.Vert.(N)		Fixed	024
Camera	KA-53A	12	A.Vert.(N)		Fixed	025
Camera	KA-53A	12	L.Obl.(N)	81	Fixed	026
Camera	KA-53A	12	R.Obl.(N)	81	Fixed	027
Camera	KA-55	12	PAN		Fixed	044
Camera	KA-56	3	PAN		Fixed	054

ENCLOSURE 6

### SENSOR IDENTIFICATION CODES

<i>Nomenclature</i>	<i>Designation</i>	<i>Focal Length (Inches)</i>	<i>Mode</i>	<i>Depression Angle (Degrees)</i>	<i>Mount</i>	<i>Code</i>
Camera	KA-60	3	Vert		Fixed	088
Camera	KA-60	3	F.Obl.	20	Fixed	089
Camera	KA-62A	3	L.Obl.	37.5	Fixed	036
Camera	KA-62A	3	R.Obl.	37.5	Fixed	037
Camera	KA-62A	3	L.Obl.	52	Fixed	038
Camera	KA-62A	3	R.Obl.	52	Fixed	039
Camera	KA-62A	3	Vert		Fixed	040
Camera	KA-62A	3	F.Vert		Stab.	041
Camera	KA-62A	3	A.Vert		Stab.	042
Camera	KA-76	1.75	Vert		Fixed	090
Camera	KA-76	1.75	R.Obl.	15	Fixed	091
Camera	KA-76	1.75	L.Obl.	15	Fixed	092
Camera	KA-76	1.75	R.Obl.	30	Fixed	093
Camera	KA-76	1.75	L.Obl.	30	Fixed	094
Camera	KA-76	3	Vert		Fixed	095
Camera	KA-76	3	R.Obl.	15	Fixed	096
Camera	KA-76	3	L.Obl.	15	Fixed	097
Camera	KA-76	3	R.Obl.	30	Fixed	098
Camera	KA-76	3	L.Obl.	30	Fixed	099
Camera	KA-76	6	Vert		Fixed	100
Camera	KA-76	6	R.Obl.	15	Fixed	101
Camera	KA-76	6	L.Obl.	15	Fixed	102
Camera	KA-76	6	R.Obl.	30	Fixed	103
Camera	KA-76	6	L.Obl.	30	Fixed	104
Camera	KA-76	12	Vert		Fixed	105
Camera	KA-76	12	R.Obl.	15	Fixed	106
Camera	KA-76	12	L.Obl.	15	Fixed	107
Camera	KA-76	12	R.Obl.	30	Fixed	108
Camera	KA-76	12	L.Obl.	30	Fixed	109
Camera	KA-73	3	PAN		Fixed	148
Camera	KA-87	3	Vert		Fixed	085
Camera	KA-87	6	Vert		Fixed	086
Camera	KC-6A	6	Vert		Stab.	138
Camera	KS-68A	3	PAN			006
Camera	KS-69A	18	PAN			004
Camera	KS-72	6	R. Obl.	25	Fixed	114
Camera	KS-72	6	Vert		Fixed	115
Camera	KS-72	6	L. Obl.	3	Fixed	116
Camera	KS-72	3	R. Obl.	30	Fixed	117
Camera	KS-72	3	Vert		Fixed	118
Camera	KS-72	12	L. Obl.	5	Fixed	119
Camera	KS-72	12	L. Obl.	15	Fixed	120
Camera	KS-72	12	L. Obl.	25	Fixed	121
Camera	KS-72	12	Vert		Fixed	122
Camera	KS-72	12	R. Obl.	25	Fixed	123
Camera	KS-72	12	R. Obl.	15	Fixed	124
Camera	KS-72	12	R. Obl.	5	Fixed	125
Camera	KS-78A(KC-6A)	6	Vert		Stab.	149
Camera	KS-87	6	S. Vert (L)	71.6	Fixed	045
Camera	KS-87	12	S. Vert (L)	80.5	Fixed	046
Camera	KS-87	18	S. Vert	83.7	Fixed	047
Camera	KS-87	18	Vert		Fixed	048
Camera	KS-87	3	F. Obl.	35.9	Fixed	049

ENCLOSURE 6

DIAR 55-2  
AR 381-8  
OPNAVINST 3880.3A  
AFR 200-8

SENSOR IDENTIFICATION CODES

<i>Nomenclature</i>	<i>Designation</i>	<i>Focal Length (Inches)</i>	<i>Mode</i>	<i>Depression Angle (Degrees)</i>	<i>Mount</i>	<i>Code</i>
Camera	KS-87	3	Vert		Fixed	050
Camera	KS-87	12	L. Obl.	5	Rota'ble	051
Camera	KS-87	12	L. Obl.	15	Rota'ble	052
Camera	KS-87	12	L. Obl.	30	Rota'ble	053
Camera	KS-87	12	Vert		Rota'ble	054
Camera	KS-87	12	R. Obl.	30	Rota'ble	055
Camera	KS-87	12	R. Obl.	15	Rota'ble	056
Camera	KS-87	12	R. Obl.	5	Rota'ble	057
Camera	KS-87	6	F. Obl.	23.5	Rota'ble	058
Camera	KS-87	6	F. Vert		Rota'ble	059
Camera	KS-87	18	L. Obl.	5	Rota'ble	061
Camera	KS-87	18	L. Obl.	15	Rota'ble	062
Camera	KS-87	18	L. Obl.	30	Rota'ble	063
Camera	KS-87	18	Vert		Rota'ble	064
Camera	KS-87	18	R. Obl.	30	Rota'ble	065
Camera	KS-87	18	R. Obl.	15	Rota'ble	066
Camera	KS-87	18	R. Obl.	5	Rota'ble	067
Camera	KS-87	3	L. Obl.	30	Fixed	068
Camera	KS-87	6	L. Obl.	37.6	Fixed	069
Camera	KS-87	12	L. Obl.	5	Fixed	070
Camera	KS-87	12	L. Obl.	15	Fixed	071
Camera	KS-87	12	L. Obl.	30	Fixed	072
Camera	KS-87	18	L. Obl.	5	Fixed	073
Camera	KS-87	18	L. Obl.	15	Fixed	074
Camera	KS-87	18	L. Obl.	30	Fixed	075
Camera	KS-87	3	R. Obl.	30	Fixed	076
Camera	KS-87	6	R. Obl.	37.6	Fixed	077
Camera	KS-87	12	R. Obl.	5	Fixed	078
Camera	KS-87	12	R. Obl.	15	Fixed	079
Camera	KS-87	12	R. Obl.	30	Fixed	080
Camera	KS-87	18	R. Obl.	5	Fixed	081
Camera	KS-87	18	R. Obl.	15	Fixed	082
Camera	KS-87	18	R. Obl.	30	Fixed	083
IR Set	AN/AAS-18					087
IR Set	AN/AAS-21					885
IR Set	AN/AAS-24					110
Laser	AN/AVD-2	6	Vert		Fixed	139
PECM	AN/ALQ-61					022
SLR	AN/APD-7					001
SLR	AN/APQ-102					060
SLR	AN/APS-94		km 25 Range			111
SLR	AN/APS-94		km 50 Range			112
SLR	AN/APS-94		km 100 Range			113

ENCLOSURE 6

MODE DESIGNATORS

Column X Position 2

<i>B/N Mode</i>	<i>Mode Designator</i>
Normal	0
Standby	4

Column Z Position 8

Side Looking Radar	
<i>Mode</i>	<i>Mode Designator</i>
Short (0-3nm)	1
Medium (0-6 nm)	2
Long (0-20nm)	3
Extended (20-30 nm) Port	4
Extended (30-40 nm) Port	5
Extended (20-30 nm) Stbd	6
Extended (30-40 nm) Stbd	7

<i>Range Delay</i>	<i>Mode Designator</i>
0 kM	1
10 kM	2
20 kM	3
30 kM	4
40 kM	5
50 kM	6
60 kM	7

<i>Infra Red Sensor</i>	
<i>Filter Position</i>	<i>Mode Designator</i>
1	1
2	2
3	3
4	4
5	5

ENCLOSURE 7